

Amendments to the Claims:

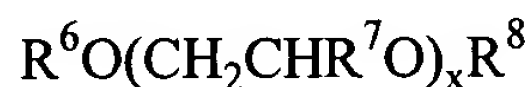
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1-143. (canceled)

144. (previously presented) A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of one or more salts of alkylaryl sulfonic acid effective to perform
a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;
a first solubilizing quantity of a non-ionic surfactant effective to solubilize said demulsifier in said aqueous solution, said non-ionic surfactant comprising an alkoxylated compound having the following general formula:



wherein

R^6 is an alkyl group having from about 8 to about 16 carbon atoms;

R^7 independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R^8 is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

x is from about 2 to about 20; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble glycol ethers, water soluble amides, water soluble

ketones, and water soluble alcohols selected from the group consisting of methanol, ethanol, 1-propanol, and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

145. (previously presented) The composition of claim 144 wherein said aqueous solution is a brine.

146. (canceled)

147. (previously presented) The composition of claim 144 wherein said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%; said first solubilizing quantity of said non-ionic surfactant is from about 1 wt.% to about 10 wt.%; and said second solubilizing quantity of said mutual organic solvent is from about 60 to about 98 wt.%.
98 wt.%.

148. (previously presented) The composition of claim 144 wherein said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and said second solubilizing quantity of said mutual organic solvent is from about 85 to about 95 wt.%.
95 wt.%.

149. (previously presented) The composition of claim 145 wherein said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%; said first solubilizing quantity of said non-ionic surfactant is from about 1 wt.% to about 10 wt.%; and said second solubilizing quantity of said mutual organic solvent is from about 60 to about 98 wt.%.
98 wt.%.

150. (previously presented) The composition of claim 145 wherein said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and said second solubilizing quantity of said mutual organic solvent is from about 85 to about 95 wt.%.

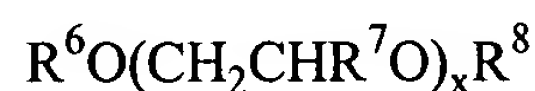
151. (canceled).

152. (canceled).

153. (previously presented) The demulsifier composition of claim 144 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

154. (currently amended) ~~The demulsifier composition of claim 144 wherein said demulsifier comprises~~ A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of alkylaryl sulfonic acid effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;
a first solubilizing quantity of a non-ionic surfactant effective to solubilize said demulsifier in said aqueous solution, said non-ionic surfactant consisting essentially of an alkoxyated compound having the following general formula:



wherein

R⁶ is an alkyl group having from about 8 to about 16 carbon atoms;

R⁷ independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R⁸ is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

x is from about 2 to about 20; and

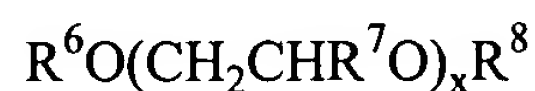
a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble glycol ethers, water soluble amides, water soluble ketones, and water soluble alcohols selected from the group consisting of methanol, ethanol, 1-propanol, and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

155. (canceled).

156. (currently amended) A demulsifier composition consisting essentially of:

a demulsifying amount of one or more salts of alkaryl sulfonic acid effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of ~~a non-ionic surfactant~~ an alkoxyated compound effective to solubilize said demulsifier in said aqueous solution, said ~~non-ionic surfactant~~ comprising an alkoxyated compound having the following general formula:



wherein

R⁶ is an alkyl group having from about 8 to about 16 carbon atoms;

R⁷ independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R⁸ is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

x is from about 2 to about 20; and

a second solubilizing quantity of ~~a mutual organic solvent comprising~~ one or more water-soluble alkanol ethers having the formula



wherein

R¹⁰, R¹¹ and R¹² independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

z is from about 1 to about 22.

157. (previously presented) The composition of claim 156 wherein

R¹⁰ and R¹¹ are hydrogen;

R¹² is selected from the group consisting of methyl, ethyl, propyl, iso-propyl, and butyl groups;

z is from about 1 to about 8.

158. (currently amended) The composition of claim 156 wherein said ~~mutual organic solvent~~ one or more water-soluble alkanol ethers is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

159. (previously presented) The composition of claim 156 wherein said demulsifier is a 2-propanamine salt of dodecyl benzene sulfonic acid.

160. (currently amended) The composition of claim 156 wherein said ~~non-ionic surfactant-alkoxylated compound~~ has a hydrophilic-lipophilic balance (HLB) value of from about 5 to about 20.

161. (currently amended) The composition of claim 156 wherein said ~~non-ionic surfactant-alkoxylated compound~~ has a HLB value of about 8 to about 15.

162. (currently amended) The composition of claim 156 wherein
said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%;
said first solubilizing quantity of said ~~non-ionic surfactant-alkoxylated compound~~ is from
about 1 wt.% to about 10 wt.%; and
said second solubilizing quantity of said ~~mutual-organic solvent-one or more water-~~
soluble alkanol ethers is from about 60 to about 98 wt.%.

163. (currently amended) The composition of claim 156 wherein
said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and
said second solubilizing quantity of said ~~mutual-organic solvent-one or more water-~~
soluble alkanol ethers is from about 85 to about 95 wt.%.

164. (currently amended) The composition of claim 157 wherein
said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%;
said first solubilizing quantity of said ~~non-ionic surfactant-alkoxylated compound~~ is from
about 1 wt.% to about 10 wt.%; and
said second solubilizing quantity of said ~~mutual-organic solvent-one or more water-~~
soluble alkanol ethers is from about 60 to about 98 wt.%.

165. (currently amended) The composition of claim 157 wherein
said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and

said second solubilizing quantity of said ~~mutual organic solvent~~ one or more water-soluble alkanol ethers is from about 85 wt.% to about 95 wt.%.

166. (currently amended) The composition of claim 158 wherein
said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%;
said first solubilizing quantity of said ~~non-ionic surfactant~~ alkoxylated compound is from
about 1 wt.% to about 10 wt.%; and

said second solubilizing quantity of said ~~mutual organic solvent~~ one or more water-soluble alkanol ethers is from about 60 to about 98 wt.%.

167. (currently amended) The composition of claim 158 wherein
said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and
said second solubilizing quantity of said ~~mutual organic solvent~~ one or more water-soluble alkanol ethers is from about 85 to about 95 wt.%.

168. (previously presented) A demulsifier composition to prevent or resolve
downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially
of:

a demulsifying amount of a 2-propanamine salt of dodecyl benzene sulfonic acid
effective to perform a function selected from the group consisting of demulsifying
an emulsion in an aqueous solution and preventing formation of an emulsion in an
aqueous solution;

a first solubilizing quantity of an alcohol ethoxylate having the following general formula



wherein

R⁶ is an alkyl group having from about 8 to about 16 carbon atoms;

R⁷ independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R⁸ is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

x is from about 2 to about 20; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

169. (previously presented) The composition of claim 168 wherein

R⁶ is a linear alkyl group having from about 14 to about 15 carbon atoms; and

x is from about 5 to about 10.

170. (previously presented) The composition of claim 168 wherein said aqueous solution is a brine.

171. (previously presented) The composition of claim 169 wherein said aqueous solution is a brine.

172. (previously presented) The composition of claim 168 wherein

said demulsifying amount of said 2-propanamine salt of dodecyl benzene sulfonic acid is from about 1 wt.% to about 40 wt.%;

said first solubilizing quantity of said alcohol ethoxylate is from about 1 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 60 wt.% to about 98 wt.%.

173. (previously presented) The composition of claim 168 wherein
said demulsifying amount of said 2-propanamine salt of dodecyl benzene sulfonic acid is
from about 2 wt.% to about 10 wt.%; and
said second solubilizing quantity of said mutual organic solvent is from about 85 wt.% to
about 95 wt.%.
174. (previously presented) The composition of claim 169 wherein
said demulsifying amount of said 2-propanamine salt of dodecyl benzene sulfonic acid is
from about 1 wt.% to about 40 wt.%;
said first solubilizing quantity of said alcohol ethoxylate is from about 1 wt.% to about 10
wt.%; and
said second solubilizing quantity of said mutual organic solvent is from about 60 wt.% to
about 98 wt.%.
175. (previously presented) The composition of claim 169 wherein
said demulsifying amount of said 2-propanamine salt of dodecyl benzene sulfonic acid is
from about 2 wt.% to about 10 wt.%; and
said second solubilizing quantity of said mutual organic solvent is from about 85 wt.% to
about 95 wt.%.
176. (previously presented) A demulsifier composition to prevent or resolve
downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:
a demulsifying amount of one or more salts of alkylaryl sulfonic acid, effective to
perform a function selected from the group consisting of demulsifying an
emulsion in an aqueous solution and preventing formation of an emulsion in an
aqueous solution;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble glycol ethers, water soluble amides, water soluble ketones, and water soluble alcohols selected from the group consisting of methanol, ethanol, 1-propanol, and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

177. (previously presented) A brine comprising:

said brine, selected from the group consisting of a drilling fluid, a workover fluid, and a completion fluid, said brine comprising:

a demulsifying amount of one or more salts of alkylaryl sulfonic acid effective to perform a function selected from the group consisting of demulsifying an emulsion in said aqueous solution and preventing formation of an emulsion in said aqueous solution;

a first solubilizing quantity of a non-ionic surfactant effective to solubilize said demulsifier in said aqueous solution;

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble glycol ethers, water soluble amides, water soluble ketones, and water soluble alcohols selected from the group consisting of methanol, ethanol, 1-propanol, and 2-propanol, said mutual organic solvent being

effective to solubilize said demulsifier and said non-ionic surfactant to produce said brine.

178. (previously presented) The brine of claim 177 wherein said non-ionic surfactant comprises an alkoxyated compound having the following general formula:



wherein

R^6 is an alkyl group having from about 8 to about 16 carbon atoms;

R^7 independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R^8 is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

x is from about 2 to about 20.

179. (previously presented) The brine of claim 177 wherein said non-ionic surfactant has an HLB of from about 8 to about 15.

180. (previously presented) The brine of claim 178 wherein said non-ionic surfactant has an HLB of from about 8 to about 15.

181. (previously presented) The brine of claim 177 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

182. (previously presented) The brine of claim 178 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-

dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

183. (previously presented) The brine of claim 179 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

184. (previously presented) The brine of claim 180 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

185. (previously presented) The brine of claim 177 wherein said non-ionic surfactant is selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation.

186. (canceled).

187. (previously presented) The brine of claim 179 wherein said non-ionic surfactant is selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation.

188. (canceled).

189. (previously presented) The brine of claim 181 wherein said non-ionic surfactant is selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about

6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation.

190. (canceled).

191. (previously presented) The brine of claim 183 wherein said non-ionic surfactant is selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation.

192. (canceled).

193. (previously presented) The brine of claim 177 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

194. (previously presented) The brine of claim 178 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

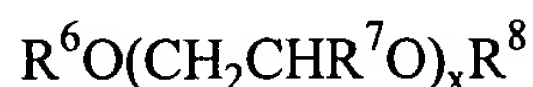
195. (previously presented) The brine of claim 183 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

196. (previously presented) The brine of claim 184 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

197. (previously presented) The brine of claim 191 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

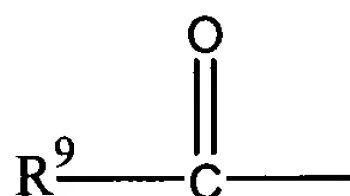
198. (previously presented) The brine of claim 185 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

199. (previously presented) The brine of claim 177 wherein said non-ionic surfactant comprises an alkoxyated compound having a hydrophilic-lipophilic balance (HLB) value of from about 5 to about 20 and having the following general formula:



wherein

R^6 independently is selected from the group consisting of hydrogen, acyl groups and alkyl groups having from about 1 to about 22 carbon atoms, said acyl groups having the following general formula:



wherein R^9 is an alkyl group having from about 1 to about 24 carbon atoms;

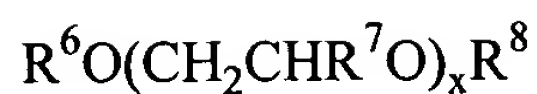
R^7 independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R^8 is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

and

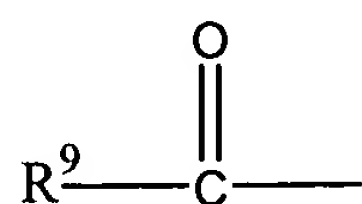
x is from about 1 to about 20.

200. (previously presented) The brine of claim 183 wherein said non-ionic surfactant comprises an alkoxyated compound having a hydrophilic-lipophilic balance (HLB) value of from about 5 to about 20 and having the following general formula:



wherein

R^6 independently is selected from the group consisting of hydrogen, acyl groups and alkyl groups having from about 1 to about 22 carbon atoms, said acyl groups having the following general formula:



wherein R^9 is an alkyl group having from about 1 to about 24 carbon atoms;

R^7 independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R^8 is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

x is from about 1 to about 20.

201. (canceled).

202. (previously presented) The brine of claim 177 wherein said mutual organic solvent comprises one or more water soluble alkanol ethers having the formula



wherein

R^{10} , R^{11} and R^{12} independently are selected from the group consisting of
hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;
and

z is from about 1 to about 22.

203. (previously presented) The brine of claim 178 wherein said mutual organic solvent comprises one or more water soluble alkanol ethers having the formula



wherein

R^{10} , R^{11} and R^{12} independently are selected from the group consisting of
hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;
and

z is from about 1 to about 22.

204. (previously presented) The brine of claim 185 wherein said mutual organic solvent comprises one or more water soluble alkanol ethers having the formula



wherein

R^{10} , R^{11} and R^{12} independently are selected from the group consisting of
hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;
and

z is from about 1 to about 22.

205. (canceled).

206. (previously presented) The brine of claim 177 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

207. (previously presented) The brine of claim 179 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

208. (previously presented) The brine of claim 198 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

209-210. (canceled).

211. (currently amended) The brine of claim 156 wherein said demulsifier comprises A demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said-alkylaryl sulfonic acid effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of a non-ionic surfactant effective to solubilize said demulsifier in said aqueous solution, said non-ionic surfactant consisting essentially of an alkoxyated compound having the following general formula:



wherein

R⁶ is an alkyl group having from about 8 to about 16 carbon atoms;

R⁷ independently is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

R⁸ is selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

x is from about 2 to about 20; and

a second solubilizing quantity of a mutual organic solvent consisting essentially of one or more water-soluble alkanol ethers having the formula



wherein

R¹⁰, R¹¹ and R¹² independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;
and

z is from about 1 to about 22.

212. (canceled).

213. (currently amended). The ~~brine~~ composition of claim 176 wherein said demulsifier comprises an amine salt of said alkylaryl sulfonic acid.

214. (previously presented) The composition of claim 176 wherein said aqueous solution is a brine.

215. (previously presented) The composition of claim 176 wherein said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%; said first solubilizing quantity of said non-ionic surfactant is from about 1 wt.% to about 10 wt.%; and

said second solubilizing quantity of said mutual organic solvent is from about 60 to about 98 wt.%.

216. (previously presented) The composition of claim 176 wherein said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and said second solubilizing quantity of said mutual organic solvent is from about 85 to about 95 wt.%.

217. (previously presented) The composition of claim 214 wherein said demulsifying amount of said demulsifier is from about 1 wt.% to about 40 wt.%; said first solubilizing quantity of said non-ionic surfactant is from about 1 wt.% to about 10 wt.%; and said second solubilizing quantity of said mutual organic solvent is from about 60 to about 98 wt.%.

218. (previously presented) The composition of claim 214 wherein said demulsifying amount of said demulsifier is from about 2 wt.% to about 10 wt.%; and said second solubilizing quantity of said mutual organic solvent is from about 85 to about 95 wt.%.

219. (previously presented) The demulsifier composition of claim 176 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

220. (currently amended) ~~The demulsifier composition of claim 176 wherein said demulsifier comprises~~ A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble glycol ethers, water soluble amides, water soluble ketones, and water soluble alcohols selected from the group consisting of methanol, ethanol, 1-propanol, and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

221. (currently amended) ~~The demulsifier composition of claim 219 wherein said demulsifier comprises~~ A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of

ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol
ethoxylates having from about 2 to about 10 moles of ethoxylation; and
a second solubilizing quantity of a mutual organic solvent selected from the group
consisting of water soluble propylene glycol ethers, N,N-dimethylformamide,
N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-
propanol and 2-propanol, said mutual organic solvent being effective to solubilize
said demulsifier and said non-ionic surfactant to produce said demulsifier
composition.

222. (previously presented) The demulsifier composition of claim 214 wherein said mutual organic solvent is selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol.

223. (currently amended) ~~The demulsifier composition of claim 214 wherein said demulsifier comprises~~ A demulsifier composition to prevent or resolve downhole emulsions in a brine, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to
perform a function selected from the group consisting of demulsifying an
emulsion in a brine and preventing formation of an emulsion in a brine;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of
polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of
ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol
ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble glycol ethers, water soluble amides, water soluble ketones, and water soluble alcohols selected from the group consisting of methanol, ethanol, 1-propanol, and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition .

224. (currently amended) ~~The demulsifier composition of claim 222 wherein said demulsifier comprises~~ A demulsifier composition to prevent or resolve downhole emulsions in brines, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in a brine and preventing formation of an emulsion in a brine;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent selected from the group consisting of water soluble propylene glycol ethers, N,N-dimethylformamide, N,N-dimethylacetamide, 1-methyl-2-pyrrolidinone, acetone, methanol, ethanol, 1-propanol and 2-propanol, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

225. (previously presented) The brine of claim 176 wherein said non-ionic surfactant has an HLB of from about 8 to about 15.

226. (previously presented) The brine of claim 214 wherein said non-ionic surfactant has an HLB of from about 8 to about 15.

227. (currently amended) ~~The brine of claim 176 wherein said mutual organic solvent~~
comprises A demulsifier composition to prevent or resolve downhole emulsions in aqueous
solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of one or more salts of alkylaryl sulfonic acid, effective to

perform a function selected from the group consisting of demulsifying an

emulsion in an aqueous solution and preventing formation of an emulsion in an

aqueous solution;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of

polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of

ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol

ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent consisting essentially of one or

more water soluble alkanol ethers having the formula



wherein

R^{10} , R^{11} and R^{12} independently are selected from the group consisting of

hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

and

z is from about 1 to about 22, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

228. (currently amended) ~~The brine of claim 214 wherein said mutual organic solvent comprises~~ A demulsifier composition to prevent or resolve downhole emulsions in brines, said demulsifier composition consisting essentially of:

a demulsifying amount of one or more salts of alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in a brine and preventing formation of an emulsion in a brine;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent consisting essentially of one or more water soluble alkanol ethers having the formula



wherein

R^{10} , R^{11} and R^{12} independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms; and

z is from about 1 to about 22, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

229. (currently amended) ~~The brine of claim 220 wherein said mutual organic solvent comprises~~ A demulsifier composition to prevent or resolve downhole emulsions in aqueous solutions, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in an aqueous solution and preventing formation of an emulsion in an aqueous solution;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent consisting essentially of one or more water soluble alkanol ethers having the formula



wherein

R^{10} , R^{11} and R^{12} independently are selected from the group consisting of

hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

and

z is from about 1 to about 22, said mutual organic solvent being effective to

solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

230. (currently amended) ~~The brine of claim 223 wherein said mutual organic solvent comprises~~ A demulsifier composition to prevent or resolve downhole emulsions in a brine, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to

perform a function selected from the group consisting of demulsifying an

emulsion in a brine and preventing formation of an emulsion in a brine;

a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of

polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of

ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol

ethoxylates having from about 2 to about 10 moles of ethoxylation; and

a second solubilizing quantity of a mutual organic solvent consisting essentially of one or

more water soluble alkanol ethers having the formula



wherein

R^{10} , R^{11} and R^{12} independently are selected from the group consisting of

hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;

and

z is from about 1 to about 22, said mutual organic solvent being effective to

solubilize said demulsifier and said non-ionic surfactant to produce said

demulsifier.

231. (currently amended) ~~The brine of claim 224 wherein said mutual organic solvent comprises~~ A demulsifier composition to prevent or resolve downhole emulsions in brines, said demulsifier composition consisting essentially of:

a demulsifying amount of an amine salt of said alkylaryl sulfonic acid, effective to perform a function selected from the group consisting of demulsifying an emulsion in a brine and preventing formation of an emulsion in a brine;
a first solubilizing quantity of a non-ionic surfactant selected from the group consisting of polyoxyalcohols, tall oil ethoxyethylate having from about 6 to about 15 moles of ethylene oxide, ethoxylated nonylphenols, and phosphated fatty alcohol ethoxylates having from about 2 to about 10 moles of ethoxylation; and
a second solubilizing quantity of a mutual organic solvent consisting essentially of one or more water soluble alkanol ethers having the formula



wherein

R^{10} , R^{11} and R^{12} independently are selected from the group consisting of hydrogen and alkyl groups having from about 1 to about 6 carbon atoms;
 and
 z is from about 1 to about 22, said mutual organic solvent being effective to solubilize said demulsifier and said non-ionic surfactant to produce said demulsifier composition.

232. (previously presented) The brine of claim 176 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

233. (previously presented) The brine of claim 214 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

234. (previously presented) The brine of claim 220 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).

235. (previously presented) The brine of claim 223 wherein said mutual organic solvent is selected from the group consisting of ethylene glycol monobutyl ether (EGMBE) and ethylene glycol monomethyl ether (EGMME).